

REMARKS

In response to the Office action dated April 4, 2007, Applicants respectfully request reconsideration based on the above amendments and the following remarks. Applicants respectfully submit that the claims as presented are in condition for allowance.

Claims 6-13 are pending in the present application. Claims 6, 8 and 9 have been amended and claims 20-24 have been added, leaving claims 6-13 and 20-24 for consideration upon entry of the above amendments and the following remarks.

Support for the claim amendments are at least found in the specification, the figures and the claims as originally filed. More particularly, support for amended claim 6 is at least found in originally filed Specification at page 5, line 21. Support for claim 20 is at least found at page 5, lines 13-15 and FIG. 1. Support for claim 21 is at least found at page 10, line 28 through page 11, line 2. Support for claim 22 is at least found at page 10, lines 8 -13. Support for claim 23 is at least found at page 16, lines 11-15. Support for claim 24 is at least found at page 15, lines 18-27 and Figure 5.

No new matter has been introduced by the above amendments or the following remarks. Reconsideration and allowance of the claims are respectfully requested in view of the above amendments and the following remarks.

Claim Rejections Under 35 U.S.C. § 102

In order to anticipate a claim under 35 U.S.C. § 102, a single source must contain all of the elements of the claim. *Lewmar Marine Inc. v. Barient, Inc.*, 827 F.2d 744, 747, 3 U.S.P.Q.2d 1766, 1768 (Fed. Cir. 1987), *cert. denied*, 484 U.S. 1007 (1988). Moreover, the single source must disclose all of the claimed elements "arranged as in the claim." *Structural Rubber Prods. Co. v. Park Rubber Co.*, 749 F.2d 707, 716, 223 U.S.P.Q. 1264, 1271 (Fed. Cir. 1984). Missing elements may not be supplied by the knowledge of one skilled in the art or the disclosure of another reference. *Titanium Metals Corp. v. Banner*, 778 F.2d 775, 780, 227 U.S.P.Q. 773, 777 (Fed. Cir. 1985).

Claims 6-13 stand rejected under 35 U.S.C. § 102(b) as being allegedly anticipated by Seo et al. (U.S. Patent No. 5,825,437, hereinafter "Seo"). The Examiner states that Seo discloses

all of the elements of the abovementioned claims, primarily in FIGS. 6, 8e and 13 and column 2, lines 59-65, column 6, lines 7-12 and column 7, lines 55-61. Applicants respectfully traverse.

Independent claim 6 recites, *inter alia*,

“wherein the gate wire or the data wire comprises a metal film including a conductive material and an opaque metal oxide film including an oxide of a conductive material, wherein the opaque metal oxide film of the gate wire and the data wire block light.”

Seo is directed to a structure of a liquid crystal display (“LCD”) device. (See Title). The LCD device includes a substrate, a first metal layer and a second metal layer. (See Abstract). The first metal layer includes an aluminum alloy having a first refractory metal, and the second metal layer includes a pure aluminum or an aluminum alloy having a second refractory material. (*Id.*) The LCD prevents the occurrence of hillocks on the aluminum gate metal. (*Id.*) Seo discloses a signal line that is composed of a gate line 1 (i.e., composed of 2b) arranged on a substrate, a gate electrode 2 (i.e., composed of 2a) connected to gate line 1 and a pad 3 (i.e., composed of 2c). (See Col. 1, line 55 through Col. 2, line 8 and FIGs. 1 and 2).

However, Seo does not disclose a gate wire or a data wire with an opaque metal oxide film including an oxide of a conductive material, wherein the opaque metal oxide film of the gate wire and the data wire block light of amended claim 6 of the present invention.

Instead, Seo merely discloses an anodic oxide film 3 formed on the surface of each of Al metal lines 2a and 2b, and on Al metal line 2c, except for an open portion thereof. (See Col. 1, line 66 through Col. 2, line 2). That is, Seo does not disclose that the anodic oxide film is *opaque* as claimed in the present invention. Furthermore, Seo does not disclose that *the opaque metal oxide film and the data wire block light* as claimed in the present invention.

Thus, Seo does not disclose wherein the gate wire or the data wire comprises a metal film including a conductive material and an opaque metal oxide film including an oxide of a conductive material, wherein the opaque metal oxide film of the gate wire and the data wire block light of amended claim 6. Therefore, independent claim 6, including claims depending therefrom, i.e., claims 7-13, define over Seo.

Accordingly, it is respectfully requested that the rejection to claims 6-13 under § 102(b) be withdrawn and allow the same to issue.

Conclusion

In view of the foregoing, it is respectfully submitted that the instant application is in condition for allowance. Accordingly, it is respectfully requested that this application be allowed and a Notice of Allowance issued. If the Examiner believes that a telephone conference with Applicants' attorneys would be advantageous to the disposition of this case, the Examiner is cordially requested to telephone the undersigned.

In the event the Commissioner of Patents and Trademarks deems additional fees to be due in connection with this application, Applicants' attorney hereby authorizes that such fee be charged to Deposit Account No. 06-1130.

Respectfully submitted,

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